







STEAMERS  
 IRVING S. OLDS  
 BENJAMIN F. FAIRLESS  
 BUILT AT LORAIN  
 THE AMERICAN SHIP BUILDING CO  
 CLEVELAND OHIO  
 1942

SCALE = 1/4" = 1'-0"

PRINCIPAL DIMENSIONS

LENGTH OVER ALL 659'-0"  
 LENGTH BETWEEN PERPENDICULARS 614'-0"  
 BEAM - EXTREME - OVER FINDER 61'-4"  
 BEAM - MOULDED 61'-0"  
 DEPTH - MOULDED - TO SPAN DECK 35'-0"

CARGO CAPACITIES (INCLUDING HATCHES)

DEPT	COAL	WHEAT	CORNFLOUR	BARLEY	OATS
IN TONS	IN TONS	IN TONS	IN TONS	IN TONS	IN TONS
1st	18,000	18,000	18,000	18,000	18,000
2nd	18,000	18,000	18,000	18,000	18,000
3rd	18,000	18,000	18,000	18,000	18,000
4th	18,000	18,000	18,000	18,000	18,000
5th	18,000	18,000	18,000	18,000	18,000
6th	18,000	18,000	18,000	18,000	18,000
7th	18,000	18,000	18,000	18,000	18,000
8th	18,000	18,000	18,000	18,000	18,000
9th	18,000	18,000	18,000	18,000	18,000
10th	18,000	18,000	18,000	18,000	18,000
11th	18,000	18,000	18,000	18,000	18,000
12th	18,000	18,000	18,000	18,000	18,000
13th	18,000	18,000	18,000	18,000	18,000
14th	18,000	18,000	18,000	18,000	18,000
15th	18,000	18,000	18,000	18,000	18,000
16th	18,000	18,000	18,000	18,000	18,000
17th	18,000	18,000	18,000	18,000	18,000
18th	18,000	18,000	18,000	18,000	18,000
19th	18,000	18,000	18,000	18,000	18,000
20th	18,000	18,000	18,000	18,000	18,000
21st	18,000	18,000	18,000	18,000	18,000
22nd	18,000	18,000	18,000	18,000	18,000
23rd	18,000	18,000	18,000	18,000	18,000
24th	18,000	18,000	18,000	18,000	18,000
25th	18,000	18,000	18,000	18,000	18,000
26th	18,000	18,000	18,000	18,000	18,000
27th	18,000	18,000	18,000	18,000	18,000
28th	18,000	18,000	18,000	18,000	18,000
29th	18,000	18,000	18,000	18,000	18,000
30th	18,000	18,000	18,000	18,000	18,000

FOR DISPLACEMENT CURVE AND CURVE OF TONS PER INCH SEE CURVES PAGES 10-11  
 FOR EACH TON OF CARGO, COAL, WATER, BALLAST, FRESH WATER AND STORES, DEDUCT (AS ANY MEAN DRAFT) FROM CAPACITY SHOWN - FOR 100% DRY & 80% TANKS, FOR WHEAT, 1.5 CUBIC FEET PER TON, FOR CORNFLOUR, 1.5 CUBIC FEET PER TON, FOR BARLEY, 1.5 CUBIC FEET PER TON, FOR OATS, 1.5 CUBIC FEET PER TON.

TANK CAPACITIES

COMPARTMENT	COAL	WHEAT	CORNFLOUR	BARLEY	OATS
FORE PEAK TANK	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 1	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 2	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 3	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 4	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 5	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 6	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 7	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 8	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 9	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 10	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 11	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 12	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 13	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 14	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 15	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 16	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 17	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 18	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 19	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 20	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 21	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 22	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 23	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 24	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 25	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 26	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 27	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 28	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 29	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 30	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 31	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 32	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 33	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 34	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 35	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 36	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 37	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 38	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 39	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 40	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 41	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 42	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 43	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 44	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 45	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 46	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 47	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 48	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 49	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 50	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 51	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 52	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 53	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 54	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 55	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 56	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 57	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 58	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 59	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 60	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 61	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 62	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 63	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 64	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 65	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 66	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 67	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 68	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 69	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 70	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 71	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 72	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 73	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 74	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 75	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 76	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 77	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 78	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 79	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 80	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 81	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 82	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 83	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 84	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 85	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 86	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 87	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 88	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 89	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 90	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 91	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 92	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 93	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 94	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 95	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 96	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 97	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 98	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 99	18,000	18,000	18,000	18,000	18,000
BALLAST TANK N° 100	18,000	18,000	18,000	18,000	18,000

TANK CAPACITIES ARE NET MOULDED VOLUME WITH 1% PER CENT DEDUCTED FOR STRUCTURE. FRESH WATER TAKEN AT 62.5 LBS. PER CU. FT. 32 CU. FT. PER SHORT TON OF 2000 LBS. (GALLON = 128 CU. IN. 100 CU. FT. = 7.48 GALLONS)

HOLD CAPACITIES

COMPARTMENT	FRAME No	CUBIC FEET		IN TONS OF IRON		SHORT TONS	LONG TONS
		NET	GROSS	COAL	IRON		
HOLD N° 1	28-78	280,972	312,618	5,315	34.015	4,746	3.88
HOLD N° 2	78-120	16,204	200,972	161,468	5,024	32,156	4,486
HOLD N° 3	120-176	225,746	209,584	174,560	8,239	30,550	4,877
BL BUNKER	100-193		24,934			584	
TCHES		1,028	17,028	16,682		426	
TOTAL		663,553	640,182	304,396	104,005	99,705	12,891
TOTAL							